प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1828/2359/2024

INITIAL COMMERCIAL TEST REPORT माह/Month : March, 2024

Application Reference No. 28/2023-24/17

(यह परीक्षण रिपोर्ट 31/03/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/03/2029)



Make of Agricultural Tractor Model Manufactured by : INTERNATIONAL TRACTORS LIMITED

: SOLIS 5015

: International Tractors Limited, Vill. Chak Gujran, P.O. Piplanwala, Jalandhar Road, Hoshiarpur - 146022 (Punjab).



भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय (कृषि एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS' WELFARE

(DEPARTMENT OF AGRICULTURE & FARMERS' WELFARE) केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

TRACTOR NAGAR, BUDNI (M.P.) 466 445 (An ISO 9001:2015 Certified Institute)

E-mail: <u>fmti-mp@nic.in</u> Web site: <u>http://www.fmttibudni.gov.in</u> Telephone: 07564-299003

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INTERNATIONAL TRACTORS LIMITED, SOLIS 5015 TRACTOR - INITIAL COMMERCIAL TEST

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide a OM No. 13-17/2021-M&T (I&P) dated 28.07.2022, that since 15th August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report: -

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

Month: March Test Report No.: T-1828/2359/2024 Year: 2024



GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE - BUDNI

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INTERNATIONAL TRACTORS LIMITED, SOLIS 5015 TRACTOR - INITIAL COMMERCIAL TEST

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[C] Tractor manufacturer's name and : International Tractors Limited,

address

Vill. Chak Gujran, P.O. Piplanwala, Jalandhar

Road, Hoshiarpur-146022 (Punjab).

[C] Submitted for test by (Applicant) : The Manufacturer

[C] Selected for test by : The Ministry vide OM No. 13-17/2021 - M&T

(I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test

sample to the Institute for test.

[D] Place of running-in : At manufacturer's works

[D] Duration of running-in, (h):

-Engine : 20 -Transmission : 20

[C] Location of test : Government of India,

Central Farm Machinery Training and Testing

Institute, P.O. - Tractor Nagar, BUDNI - 466445 (M.P.), INDIA

1. SPECIFICATIONS OF TRACTOR

1.1 Identification:

1.1.1 Denomination

[C] Make of tractor : International Tractors Limited

[C] Model : Solis 5015

[C] Type : Rear Wheel Driven, Standard Agricultural

Tractor.

[C] Month & year of manufacture : 04/23 [D] Country of origin : India

1.1.2 Numbers:

[D] 1st Serial No. or prototype : FXTDJ1171855S3 [C] Serial No. : GXTDK1307047S3

1.2 Engine:

[D] Manufacturer's address : International Tractors Limited,

Vill. Chak Gujran, P.O. Piplanwala, Jalandhar

Road, Hoshiarpur-146022 (Punjab).

[C] Make : International Tractors Limited

[C] Model : 3105 NH

[C] Type : Four stroke, naturally aspirated, liquid cooled,

direct injection, diesel engine.

[C] Serial No. : 3105NH3401295279F29

1.2.1 Cylinders:

[C] Number/disposition : Three/ Vertical, Inline

[D]Bore / Stroke, (mm): 105 / 118[D]Capacity, cm³: 3065[D]Compression ratio: 18.5 (±0.2):1[D]Arrangement of valves: Vertical, Inline

[D] Cylinder liners
 [D] Type of combustion chamber
 Example 1: Wet, replaceable
 Example 2: Swirl chamber, Direct Injection

1.2.2 Supercharging : Not available

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INTERNATIONAL TRACTORS LIMITED, SOLIS 5015 TRACTOR - INITIAL COMMERCIAL TEST

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for Qualifying Minimum Performance criteria as per Clause-4 (Table-1) of **IS: 12207-2022** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

S. No.		naracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the require- ments (Yes/No)
1		2	3	4	5	6	7
		IDATORY TEST d 28 th of July, 2		Ministry's Office Memorandur	n No. 13-17	7/2021-M	kT (I&P)
6.1.1		Performance:	OZZJ.				
a)	Maxi unde (kW)	mum power er 2 h test,	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine	34.2 (D)	34.8	Yes
				≤ 26 kW.			
b)	Powe engir	er at rated ne speed, (kW)	Non Evaluative	-do-	34.2 (D)	34.4	Yes
c)	Spec cons corre	cific fuel sumption esponding to imum power,	Evaluative	Should not be more than 10% of declared value	250 (D)	255	Yes
d)		mum equivalent kshaft torque,		± 8%	205 (D)	207.7	Yes
e)	Back		Evaluative	Should be minimum 12 percent	12 (D) 12 (R)	26.3	Yes
f)	Maximum operating temperature, (°C):						
	1)	Engine oil	Evaluative	The declared value should not exceed the <i>Max</i> value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration	132 (D)	110	Yes
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	120 (D)	102	Yes
g)	cons (g/kV	ne oil umption, Vh)	Evaluative	Not exceeding 1% of SFC at max. power under natural ambient conditions.	2.55 Maximum (R)	1.06	Yes
h)	Smo	ke level, m ⁻¹	Evaluative	Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum (R)	0.25	Yes

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1		2	3	4	5	6	7
6.1.2		vbar performanc	e:				
a)	with corre perce (kN)	drawbar pull ballast esponding to 15 ent wheel slip,	Non- Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*
b)	with with balla corre perce (kN)	esponding to 15 ent wheel slip,	Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	15.0 (D) 14.59 (R) Minimum	17.09	Yes
с)	Maxi powe balla stand (kW)	st/ with dard ballast,	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75 % of PTO power as referred in SI No. i) a) of PTO performance in case of light weight tractors having ≤1500 kg total static mass of tractor Minimum 75 % of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	27.36 (D) 27.8 (R) Minimum	28.4	Yes
d)	trans	mum smission oil perature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	130 (D)	86	Yes
	(*) Applicant vide letter no. Nil dated 01.11.2023 has requested not to conduct the ballasted drawbar performance & ten-hour drawbar test which was allowed as per the additional guidelines for testing of tractors as per new regime of testing of tractors vide a OM No. 13-32/2023-M&T(I&P) (FTS-125476) dated 16.05.2023. Accordingly, only unballasted drawbar performance test was conducted.						idelines M No.
6.1.3		er lift and hydra					
a)				ut the range of lift, (kN):			T
	1)	At hitch points	Evaluative	Should not be less than 90% declared value.	of 19.6 (D) 17.64 (R) Minimui		Yes
	2)	With the standard frame	Evaluative	be 24 kg/PTO kW and it sho be 21.5 kg/engine kW wh the tractor is not provided wit PTO shaft.	ast 14 (D uld 8.19 (R ere Minimu h a	21.45	Yes
b)	heigh appli after inter	mum drop in the not of the point of cation of the force each 5 minutes at the form of 30 Minutes	f Evaluative	The observed value should exceed 50 mm	not 50 (D) Maximu		No

INTERNATIONAL TRACTORS LIMITED, SOLIS 5015 TRACTOR - INITIAL COMMERCIAL TEST

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6.1.4 Brake performance at 25 kmph: a) Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without ballast, (m): 1) Cold brake Evaluative 2) Hot brake Evaluative 10 10 (R) 7.40 Yes 2) Hot brake Evaluative 10 10 (R) 7.40 Yes 4 Yes 4 Yes 5 Yes 4 Yes 6 00 N at foot pedal (s) or 400 N at hand lever 6 01.5 OPTONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted. 6.1.6 Safety features: a) Guards against moving and hot parts (Fractors having more Evaluative (Part2)) b) Lighting arrangement Evaluative Should meet the requirements of three-point linkage fravebar (wherever fitted) d) Technical requirements for PTO shaft fire point linkage for a point linkage for any optional tests, therefore no optional tests was conducted. 6.1.6 Safety features: a) Guards against moving and hot parts (Fractors having more Evaluative IS: 12343 (As amended from time to time) b) Lighting arrangement Evaluative IS: 4931 (As amended from time to time) d) Technical requirements of Evaluative IS: 12343 (As amended from time to time) 10 Dimensions of three-point linkage for a point linkage drawbar (wherever fitted) 11 Specifications of Sound meet the requirements of Evaluative IS: 12953 (As amended from time to time) 12 Specifications of Sound meet the requirement of Sound meet the requirement of IS: 12353 (As amended from time to time) 13 Specifications of Sound meet the requirement of Sound meet the requirement of IS: 12353 (As amended from time to time) 14 Specifications of Sound meet the requirement of IS: 12353 (As amended from time to time) 15 Specifications of Sound meet the requirement of IS: 12353 (As amended from time to time) 16 Specifications of Sound meet the requirement of IS: 12353 (As amended from time to time) 17 Specifications of Sound meet the requirement of IS: 12353 (As amended from time to time) 18 Specifications of Sound meet the requirement of IS: 12353 (As amended from time to time) 19 Specifications of Sound meet the r	1		2	3	4	5	6	7
a) Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without ballast, (m): 1) Cold brake Evaluative 2) Hot brake Evaluative is effective at a force of 600 N at floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at hand levar of 600 N at 1 floot pedal (s) or 400 N at 1 floot pedal		Bra	_				. 0	'
1								
Discription	aj							
b) Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever of 600 N at foot pedal (s) or 400 N at hand lever optional tests was conducted. 6.1.5 OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted. 6.1.6 Safety features: a) Guards against moving and hot parts b) Lighting arrangement Evaluative Shelt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Part2)) b) Lighting arrangement Evaluative Should meet the requirements of Tractors having more than 1150 mm rear track width) c) Seating requirements for PTO shaft d) Technical requirements for PTO shaft e) Dimensions of Inkage drawbar (wherever filted) f) Specifications of Swinging drawbar (wherever filted) h) Audble warning signal on tractor shaft Signal Signal on tractor shaft Signal						. ,		
6.1.5 or 400 N at foot pedal (s) or 400 N at fand lever OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted. 6.1.6 Safety features: a) Guards against moving and hot parts b) Lighting arrangement Evaluative (Part2) b) Lighting arrangement Evaluative Satisfies (Part2) c) Seating requirements (Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage from three to time) e) Dimensions of linkage drawbar (wherever fitted) h) Audible warming signal on tractor f) Specifications of Signal on tractor h) Audible warming signal on tractor 6.1.7 Labelling of tractors (Provision of manufacture in mambacture) As tractors (Provision of labelize) Evaluative Should meet the requirement of Size (Part3) (As amended from time to time) Should meet the requirement of Should meet the requirement of Swinging drawbar (wherever fitted) A sticker to the effect that "operating the tractor beyond 20 kmph, an audible warning signal on tractor 6.1.7 Labelling of tractors (Provision of labelize) 1) Make Evaluative Should conform to the requirement of manufacture of manufacture in mambacture in numerical form (SFC) 1) Make Evaluative Should conform to the requirement of manufacture in numerical form Mill (SFC) 1) Chassis number Evaluative Should conform to the requirement of manufacture in numerical form Mill (SFC) 1) Maximum PTO power, (kW) 7) Specific fuel consumption, serving the box No. 1 for MM will represent the world of the box No. 2 for Y will represent the year of consumption, 250 Yes consumption 250 Yes consumption, 250 Yes consumption 250 Yes consumption 250 Yes consumpt	b)							
6.1.5 OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted. 6.1.6 Safety features: a) Guards against moving and hot parts b) Lighting arrangement Evaluative (Part2)) b) Lighting arrangement Evaluative (Part2) c) Seating requirements To Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage (Pauluative Shaft) e) Dimensions of linkage drawbar (Pauluative Swinging drawbar (Wherever fitted)) h) Audible warning signal on tractor 6.1.7 Labelling of tractors (Provision of labelling plate): 1) Make Evaluative (Provision of Index) (Provision of In	.,			Lvaidativo	1007110	100	100	100
6.1.5 OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted. 6.1.6 Safety features: a) Guards against moving and hot parts b) Lighting arrangement Evaluative than 1150 mm rear track width) c) Seating requirements (Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage three-point linkage from the time-point linkage from the time to time) f) Specifications of linkage drawbar (wherever fitted) h) Audible warning signal on tractor wherever fitted (b) Audible warning signal on tractor shall get activated. A sticker to the effect that "operating the tractor beyond 20 kmph, and and utility and								
Optional tests was conducted. Safety features: a) Guards against moving and hot parts Evaluative								
6.1.6 Safety features: a) Guards against moving and hot parts billion of parts and hot parts and hot parts billion of parts and hot parts and h	6.1.5	OP	TIONAL TESTS: A	s the applica	nt has not applied for any option	onal test	s, theref	ore no
6.1.6 Safety features: a) Guards against moving and hot parts billion of parts and hot parts and hot parts billion of parts and hot parts and h		opt	optional tests was conducted.					
a) Guards against moving and hot parts b) Lighting arrangement Evaluative (Part2)] c) Seating requirements (Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage for three-point linkage drawbar (wherever fitted) h) Audible warning signal on tractor b) Specifications of Swinging or drawbar (wherever fitted) h) Audible warning signal on tractor c) Substitute of the speak	6.1.6							
b) Lighting arrangement c) Seating requirements (Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage finkage drawbar (wherever fitted) h) Audible warning signal on tractor f) Specifications of Swould meet the requirements of linkage drawbar (wherever fitted) h) Audible warning signal on tractor f) Make Evaluative Staluative signal on tractor f) Make Evaluative Staluative signal moth & Person (Provision of shaft) f) Make Evaluative (Provision of should meet the requirement of should meet the requirement of the requirement of should meet the requirement of the requirement o		Gua	ards against	Evaluative	Belt drives, pulleys, silencer,	Meets	s the	Yes
c) Seating requirements (Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage for the point linkage drawbar (wherever fitted) h) Audible warning signal on tractor c) Specifications of Sinuld meet the requirements of the power of the power (wherever fitted) h) Audible for tractors (Provision of labelling plate): 6.1.7 Labelling of tractors (Provision of labelling plate): 1) Make Evaluative Evaluative (Provision of labelling plate): 5) Chassis number Evaluative (Provision of labelling plate): 6) Maximum PTO power, (kW) (W) Provision for labelling plate): 7) Specific fuel consumption, (Provision the full of the power, (kW) (Provision the power, (kW)) (Provision the power) (Provision	,				hydraulic pipes [As per IS 12239	require	ement	
c) Seating requirements (Tractors having more than 1150 mm rear track width) d) Technical Non Evaluative Should meet the requirements of requirements for PTO shaft e) Dimensions of three-point linkage Psecifications of linkage drawbar Psecifications (wherever litted) h) Audible warning signal on tractor Evaluative Should meet the requirements of Is: 12343 (As amended from time to time) Should meet the requirements of Is: 12331-2019 (As amended from time to time) Poes not requirement of Is: 12731-2019 (As amended from time to time) Should meet the requirements of Is: 12731-2019 (As amended from time to time) g) Specifications of Initiative to time) Should meet the requirements of Is: 12953 (As amended from time to time) g) Specifications of Swinging drawbar Evaluative Is: 12962 (Part-3) (As amended from time to time) g) Specifications of Swinging drawbar Evaluative Is: 12962 (Part-3) (As amended from time to time) h) Audible warning Signal on tractor Should meet the requirement of Is: 12953 (As amended from time to time) h) Audible warning Evaluative Is tractor travel speed in reverse gear exceeds 20 kmph, an audible warning signal on tractor shall get activated. A sticker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. 6.1.7 Labelling of tractors (Provision of labelling plate): 1) Make Evaluative Should conform to the requirements of CMVR and Society of Society Indicated value of along-with declared value of								
C) Seating requirements (Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage from the requirements of linkage drawbar (wherever fitted) h) Audible warning signal on tractor C) Audible warning signal on tractor 6.1.7 Labelling of tractors (Provision of labelling plate): 1) Make Evaluative (Provision of labelling plate): 2) Model Evaluative (Provision of labelling plate): 3) Month & Year of manufacture (Provision of labelling plate): 4) Engine number Evaluative (Provision of labelling plate): 5) Chassis number Evaluative (Provision of labelling plate): 5) Chassis number Evaluative (Provision of labelling plate): 6) Maximum PTO power, (kW) 7) Specific fuel consumption, (Provision of labelling plate): 8) Should meet the requirements of Should meet the requirements of Is: 4931 (As amended from time to time) 8) Should meet the requirements of Is: 4931 (As amended from time to time) 8) Should meet the requirements of Is: 12362 (Part-3) (As amended from time to time) 8) Should meet the requirements of Is: 12362 (Part-3) (As amended from time to time) 9) Specific at the requirement of Is: 4931 (As amended from time to time) 1) Not provided (Provision of labelling plate): 1) Make Evaluative (Provision of labelling plate): 1) Make (Provision of labelling plate): 1) Make (Provision of labelling plate): 2) Model (Provision of labelling plate): 3) Month & Year of Maximum Provision of labelling plate): 4) Engine num	b)	Ligh	nting arrangement	Evaluative	As per CMVR			Yes
(Tractors having more than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage f) Specifications of linkage drawbar (wherever fitted) h) Audible warning signal on tractor Evaluative Saluative (Saluative Saluative Saluati								
than 1150 mm rear track width) d) Technical requirements for PTO shaft e) Dimensions of three-point linkage f) Specifications of linkage drawbar g) Specifications of Swinging drawbar (wherever fitted) h) Audible warning signal on tractor Fevaluative signal on tractor f) Labelling of tractors (Provision of an undacture and manufacture and man	c)							No
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Pinch Dimensions Consumption Evaluative Should meet the requirements of three-point linkage Evaluative Should meet the requirements of from time to time) Specifications Should meet the requirements of linkage drawbar Should meet the requirements of linkage drawbar Should meet the requirements of list 12953 (As amended from time to time) Meets the requirement Yes meet the requirement Should meet the requirement of list 12953 (As amended from time to time) Not provided Not applicable Not provided Not provided from time to time Not provided Not provided from time to time Not provid				Evaluative		require	ement	
three-point linkage				Non	,	Dage	m a 4	Na
from time to time) Specifications of linkage drawbar Specifications of Swinging drawbar (wherever fitted) h) Audible warning signal on tractor Signal on tractor Specifications of Swinging drawbar (wherever fitted) Specifications of Swinging drawbar (wherever fitted) Audible warning signal on tractor Specifications of Swinging drawbar (wherever fitted) Not provided Not applicable (10.68 kmph & applicable warning signal on tractor that "operating the tractor beyond 20 kmph, an audible warning signal on tractor that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. Specifications (Not (10.68 kmph & applicable warning signal on tractor that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. Specifications (Seculative PTO in kW, Specific fuel consumption (SFC) Output Development of the prominently displayed. Souls Solts Solts Yes Consumption (SFC) Output Development of Solt Solts Solts Yes (STDK130704 Yes PSC) Specific fuel Svaluative power in g/kWh and year of manufacture in numerical form MW Will represent the month and next two digit in the box No. 2 for Yy will represent the year of PSC) Specific fuel consumption, PTO Specific fuel Consumption, PTO Specific fuel Consumption, PTO Specific fuel Consumption, PTO Specific fuel Consumption (SFC) Specifications (SFC) Specific fuel Consumption (SFC) Specific	e)							NO
f) Specifications of linkage drawbar		une	e-point iinkage	Evaluative				
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1	2	3	4	5	6 7
6.1.8	Literature (Subm	ission to test age	ency):		
(a)	Operator manual	Evaluative	The printed literature in	Provided	Yes
(b)	Parts Catalogue	Evaluative	booklet form should be	Provided	Yes
(c)	Workshop/ Service manual	Evaluative	provided as per IS 8132 and should submit along with the test sample.	Provided	Yes
6.1.9	Fitment of Roll O	ver Protective St	ve Structures (ROPS):		
	For tractor having more than 1150 mm rear track width	Evaluative if fitted	ROPS should meet the requirement of IS:1182 or OECD code or equivalent International Standard.	Not fitted	Not applicable
6.1.10	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor.	Provided	Yes
6.1.11	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR.	Not fitted	Not applicable

6.2	CATEGORY OF E	BREAKDOWNS / I	DEFECTS (As per clause 5.0 o	of IS:12207-20	22):
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirements (Yes/No)
1.	Critical	Evaluative	There is no 'critical breakdown' during the course of testing.	None	Yes
2.	Major	Evaluative	There are not more than2 major break downs and neither of them should be of repetitive nature.	None	Yes
3.	Minor	Evaluative	There are not more than 5 minor defects during the test and neither of them should of repetitive nature.	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of break downs should exceed five that is, (2major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes

6.3 Conformity with following IS:

i)	Guidelines for declaration of power and specific fuel consumption and :	Conforms
	labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed	
	Year 2019)1	

ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third : Conforms revision) [IS:4931-1995 (Reaffirmed Year 2019)]

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Categories : Does not 1N,1,2N, 2, 3N, 3,4N & 4 [IS: 17231:2019] conform

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year: Conforms 2022)]

v) Agricultural tractors- Operator's seat technical requirement [IS12343 - 2021] : Does not conform

vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General requirements (first revision):[IS 12239 (Part 1) - 2018] : Does not conform

viii)

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vii) Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]

Guide lines for location and operation of operator controls on agricultural

tractors and machinery [IS: 8133 - 2021]

ix) Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part2

Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006

(Reaffirmed Year 2019) and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)]

x) Agricultural Tractors and Machinery-Lighting device for travel on public roads : Conforms

(IS:14683-1999) (Reaffirmed Year 2019)]

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 Hydraulic Performance:

- During the lifting capacity test at couple frame, the angle of rotation of mast was observed 04 degree over the full range of lift against the minimum requirement 10 degree. This should be looked into for necessary corrective action.
- ii) During Maintenance of lift load test, the drop in vertical height of the lower links was observed as 80 mm against the maximum limit of 50 mm. This does not meet the Non-Evaluative requirement of IS: 12207-2022, even though this parameter is categorized as 'Non-Evaluative', as per IS:12207-2022, yet for the sake of improvement it would be advisable to look into the matter to make it conforming to the requirement.

6.4.1.2 Operator's seat:

The following parameters does not meet the requirement of IS: 12343-2021:

Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg as per of IS: 12343-2021. This should be looked into for necessary corrective action.

6.4.1.3 Operator's work place:

Operator's work place meets the requirements of IS: 12239 (Part-I) 2018, except the following:

- (i) Provision of vertical retainers at inner sides of clutch pedal.
- (ii) Provision of spark arresting device in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

6.4.1.4 Three-point linkage:

The dimensions viz. diameter of hitch pin hole & width of ball of upper hitch points, diameter of hitch pin hole & width of ball of lower hitch points, lateral distance from lower hitch point to centre line of tractor & power range does not meet the requirements of IS: 17231-2019. This should be looked into for corrective action.

6.4.1.5 PTO master shield:

PTO master shield has not been provided on tractor as per IS: 12239-1999 (Part-2). This should be looked into for necessary corrective action.

6.5 Labelling of tractor:

The labelling plate of tractor is provided on Right Hand Side of mudguard, in this regard, the applicant has submitted a request letter No. nil dated 29.02.2024 to relocate the location of labelling plate from RHS to LHS of tractor and also stated that the labelling plate will be mounted at Left Hand Side of mudguard in regular production.

Does not

conform

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6.6 Maintenance / Service Problems:

No noticeable maintenance or service problem was observed during the test.

6.7 Recommendation with regard to safety on tractor:

The following requirements, inter alia, may be considered for incorporation on the tractor:

- i) Identification of control lever by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- ii) The hand accelerator lever, when moved away from the operator (i.e., forward) decreases the engine speed, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.
- iii) PTO master shied has not been provided as per IS: 12239 (Part-2).
- iv) The distance between engine stop control and start control was measured 340 mm against the maximum requirement of 150 mm.
- v) Fuel shutoff knob does not remain in stop position as per the requirement of IS: 8133-2021.

All of the above should be looked into for necessary corrective action.

6.8 Adequacy of Literature supplied with machine:

- 6.8.1 Literature was supplied with the tractor for reference during the test.
 - a) Operator's manual for "International Tractors Ltd., SOLIS 5015" tractors model.
 - b) Part's catalogue for "International Tractors Ltd., SOLIS 5015" tractors model.
 - c) Service manual for "International Tractors Ltd., SOLIS 5015" tractors model.
- 6.8.2 The operator manual may be brought out for the guidance of users and service personnel as per IS:8132-1999 incorporating, inter alia, the following:
 - i) Engine to PTO speed ratio.
 - ii) Recommended ballast masses for different operations.
 - iii) Declaration of suitability of tractor for wet land operation and recommended matching implements of tractor for wet land operation (if applicable for wet land operation).

TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA

TESTING AUTHORITY

B.N. DIXIT AGRICULTURAL ENGINEER	
R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER	Randey
A. K. UPADHYAY DIRECTOR (I/C)	Chy .

Draft Test Report compiled by Vithato Keyho, Senior Technical Assistant.

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7. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
7.1	Clause no. 6.4.1.1,	There are no comments on salient observations.
	6.4.1.2, 6.4.1.3, 6.4.1.4	
	& 6.4.1.5	

ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	21.2
3.	Power lift and hydraulic pump performance test	0.8
4.	Drawbar performance test	4.0
5.	Brake performance test	1.3
6.	Nominal speed test	1.4
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	4.3
	TOTAL:	33.0